

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A biological information trend display device for displaying a time series trend of biological information, comprising:
 - means for obtaining a plurality of biological information;
 - means for determining whether the obtained biological information is abnormal biological information or not; and
 - means for displaying time-series trend for each of the plurality of biological information, wherein the displaying means changes trend display style for biological information that is determined as the abnormal biological information, and wherein the displaying means further displays biological information determined as the abnormal biological information in association with information relating to the source of the biological information,
 - wherein a graph displaying area and a data type displaying area are provided;
 - wherein the time-series trends for the plurality of biological information are displayed on the same graph displaying area and the biological information determined as the abnormal biological information is displayed in association with information relating to the source of the biological information; and
 - wherein text as the source of the biological information is displayed on the data type displaying area in the same displaying style as the time-series trend for biological information which is determined as the abnormal biological information.
2. (Currently Amended) A computer readable medium having stored thereon the computer program for a biological information trend display device that displays a time-series trend of biological information, wherein the program is implemented in a computer and capable of causing the computer to perform:
 - means for obtaining a plurality of biological information;
 - means for determining whether the obtained biological information is abnormal biological information or not;

means for displaying time-series trend for each of the plurality of biological information, wherein the displaying means changes trend display style for biological information that is determined as the abnormal biological information; and

wherein the displaying means further displays biological information determined as the abnormal biological information in association with information relating to the source of the biological information,

wherein a graph displaying area and a data type displaying area are provided;

wherein the time-series trends for the plurality of biological information are displayed on the same graph displaying area and the biological information determined as the abnormal biological information is displayed in association with information relating to the source of the biological information; and

wherein text as the source of the biological information is displayed on the data type displaying area in the same displaying style as the time-series trend for biological information which is determined as the abnormal biological information.

3. (Currently Amended) A biological information trend display device for displaying a time-series trend of biological information, comprising:

means for obtaining a plurality of biological information and information regarding whether the biological information is abnormal biological information or not;

means for displaying time-series trend for each of the plurality of biological information, wherein the displaying means changes trend display style for biological information that is determined as the abnormal biological information; and

wherein the displaying means further displays biological information determined as the abnormal biological information in association with information relating to the source of the biological information,

wherein a graph displaying area and a data type displaying area are provided;

wherein the time-series trends for the plurality of biological information are displayed on the same graph displaying area and the biological information determined as the abnormal biological information is displayed in association with information relating to the source of the biological information; and

wherein text as the source of the biological information is displayed on the data type displaying area in the same displaying style as the time-series trend for biological information which is determined as the abnormal biological information.

4. (Canceled)

5. (Currently Amended) The device according to claim 1, wherein the time-series trend for biological information judged as abnormal is displayed in a different style from the time-series trend for biological information judged as normal, while the time-series trends for biological information judged as normal are displayed in the same style with each other, and the displaying means further displays a source for obtaining biological information that is determined as the abnormal biological information, while not displaying a source for obtaining biological information that is not determined as the abnormal biological information.

6. (Previously Presented) The device according to claim 1, wherein the determination of the abnormal biological information comprises determination whether the biological information exceeds certain level or falls below certain level; and

the displaying means further displays a source for obtaining biological information at an upper portion of the time-series trend when the biological information exceeds certain level, and displays a source for obtaining biological information at a lower portion of the time-series trend when the biological information falls below certain level.

7. (Previously Presented) The device according to claim 1, wherein, when subsequent biological information is no longer determined to be abnormal biological information the displaying means further displays the trend of the subsequent biological information in the original style, and maintains the indication of the information relating to the source of the biological information.

8. (Previously Presented) The device according to claim 1, wherein the displaying means further displays the information relating to the source for obtaining biological information and the source related information allows to discriminate the cases: a case in which current biological information is determined as the abnormal biological information, a case in which past and current biological information are determined as the abnormal biological information, and a case in which past biological information is

determined as the abnormal biological information while current biological information is not determined as the abnormal biological information.

9. (Original) The device according to claim 8, wherein the device further comprises display area for displaying the information relating to the source of biological information, wherein the display area includes an inner indication area and an outer indication area that surrounds the inner indication area, and

wherein the displaying means further displays at least the inner indication area in association with biological information that is determined as the abnormal biological information when current biological information is determined as the abnormal biological information, and displays at least the outer indication area in association with the biological information determined as the abnormal biological information when the biological information is determined as abnormal biological information in the past.

10. (Original) The device according to claim 1, wherein the displaying means further displays time-series trend of biological information with information relating to the source of the biological information.

11. (Original) The device according to claim 1, wherein the displaying means displays different biological information in the same trend display style, which are derived from different sources for the biological information that is not determined as the abnormal biological information.

12. (Original) The device according to claim 1, wherein the changing trend display style comprises changing the trend display color.

13. (Original) The device according to claim 12, wherein the displaying means further conforms the trend display color of biological information that is determined as the abnormal biological information to display color of information relating to the source of the biological information.

14. (Original) The device according to claim 1, wherein the biological information comprises information that shows different behaviors depending on the sources.

15. (Original) The device according to claim 14, wherein the biological information comprises information related to ST level of an electrocardiogram, and the source-related information comprises information relating to electrocardiogram lead.

16. (Currently Amended) A biological information trend displayed object, on a data display device, representing time-series trend of the biological information, wherein the biological information trend displayed object represents time-series trend for each of a plurality of biological information, and trend display style for the determined abnormal biological information is changed, and wherein the biological information determined as the abnormal biological information is displayed in association with information relating to the source of the biological information,

wherein a graph displaying area and a data type displaying area are provided;

wherein the time-series trends for the plurality of biological information are displayed on the same graph displaying area and the biological information determined as the abnormal biological information is displayed in association with information relating to the source of the biological information; and

wherein text as the source of the biological information is displayed on the data type displaying area in the same displaying style as the time-series trend for biological information which is determined as the abnormal biological information.

17. (Currently Amended) A data display device for obtaining different types of data in time-series as indicator and displaying each of the obtained data in a graph form, wherein the data display device sets data type displaying area and graph displaying area ~~display area~~ for indicating data type, and is to execute the procedures of:

determining whether content represented based on the obtained data is matter to be informed or not;

displaying the data determined as the matter to be informed in a graph form by using different graph display style from that of data not determined as the matter to be informed; and

conforming all or a part of display style for indicating the data type to all or a part of the graph display style of the data;

wherein the time-series graphs are displayed on the same graph displaying area; and

wherein text as the source of the data is displayed in the data type displaying area in the same displaying style as the time-series trend for data which is determined as to be informed.

18. (Currently Amended) A biological information trend display device for displaying a time-series trend of biological information, a central processing unit (CPU) of the biological information trend display device is to execute the procedures of:

obtaining a plurality of biological information;

determining whether the obtained biological information is abnormal biological information or not; and

instructing to display time-series trend for each of the plurality of biological information and to change trend display style for biological information that is determined as the abnormal biological information;

wherein the time-series trends for the plurality of biological information are displayed on the same graph displaying area and the biological information determined as the abnormal biological information is displayed in association with information relating to the source of the biological information; and

wherein text as the source of the biological information is displayed in the same displaying style as the time-series trend for biological information which is determined as the abnormal biological information.

19. (Currently Amended) A biological information trend display device for displaying a time-series trend of biological information, a central processing unit (CPU) of the biological information trend display device is to execute the procedures of:

obtaining a plurality of biological information and information regarding whether the biological information is abnormal biological information or not; and

instructing to display time-series trend for each of the plurality of biological information and to change trend display style for biological information that is determined as the abnormal biological information,

wherein a graph displaying area and a data type displaying area are provided;

wherein the time-series trends for the plurality of biological information determined as the abnormal biological information is displayed in association with information relating to the source of the biological information; and

wherein text as the source of the biological information is displayed on the data type displaying area in the same displaying style as the time-series trend for biological information which is determined as the abnormal biological information.

20. (Currently Amended) A data display device for obtaining different types of data in time-series as indicator and displaying each of the obtained data in a graph form, wherein the data display device sets data type displaying area ~~display area~~ for indicating data type and graph displaying area, and a central processing unit (CPU) of the data display device is to execute the procedures of:

determining whether content represented based on obtained data is matter to be informed or not;

instructing to display the data that is determined as the matter to be informed in a graph form by using different graph display style from that of data that is not determined as the matter to be informed; and

instructing to conform all or a part of display style for indicating the data type to all or a part of the graph display style of the data;

wherein the time-series graphs are displayed on the same graph displaying area; and

wherein text as the source of the data is displayed on the data type displaying area in the same displaying style as the time-series trend for data which is determined as to be informed.

21. (Currently Amended) A method for displaying a time-series trend of biological information comprising the steps of:

obtaining biological information;

determining whether the obtained biological information is abnormal biological information or not;

displaying time-series trend for each of a plurality of biological information, wherein the trend display style for biological information that is determined as the abnormal biological information is changed; and

wherein in the displaying step biological information determined as the abnormal biological information is displayed in association with information relating to the source of the biological information;

wherein a graph displaying area and a data type displaying area are provided;

wherein the time-series trends for the plurality of biological information are displayed on the same graph displaying area and the biological information determined as the abnormal

biological information is displayed in association with information relating to the source of the biological information; and

wherein text as the source of the biological information is displayed on the data type displaying area in the same displaying style as the time-series trend for biological information which is determined as the abnormal biological information.